

Baseline Schedule Narrative

MDOT 105076-160404

Submission Date: 03/22/20

Schedule Filename: CPM_105076-160404_2020-03-01_1BS

Schedule Data Date: 03/01/20

A. Milestone Dates

See chart below.

Milestone	Scheduled Dates	Contractual Dates
Award Date:	1/15/20	1/15/20
Start Date:	3/18/20	No later than 3/1/20
Start Field Work:	6/3/20	4/15/20
Interim Open to Traffic Date:	10/10/20	10/31/20
Project Completion Date:	10/19/20	10/31/20

B. Work Sequence

Upon award of the contract, work will begin on the various shop drawings and submittals required for the project. Once the CPM schedule is approved, field work begins on both the temporary crossovers and watermain installation. When the temporary crossover work is complete the traffic will be switched, and the bridge work will begin on B01-1, B02-1 and B02-2, with the B02 bridges not starting until the demolition work is complete at B01-1. As soon as B01-1 is complete, traffic will be switched to the final stage for reconstruction of B01-2.

C. Resources

The resources committed to this project will slowly ramp up starting with one crew working on the watermain installation as well as one crew work on construction of the temporary crossovers. Once the traffic is switched, two full bridge crews will be mobilized to work on B01-1, B02-1 and B02-2. Crews will be demobilized upon completion of the various areas of work.

D. Work Schedule

As currently scheduled, all work is based on a standard five (5) day work week (four ten-hour days and one eight-hour day), with Saturdays being used as makeup days to account for the required number of adverse weather days. The holidays periods as defined in the Maintaining Traffic SP have also been included (5/28/20 – 5/30/20, 7/2/20 - 7/4/20, 9/3/20 – 9/5/20). No work is currently scheduled during the overnight hours or outside of the normal construction season

E. Weather

See Work Schedule above. Saturdays will be used as makeup days to account for the required number of adverse weather days.

F. Critical Path

The critical path for this project starts with submission, review and approval of the baseline schedule. Once the schedule is approved, work will begin on the temporary crossovers required for the traffic switch. As soon as the crossovers are complete, traffic is scheduled to be switched, and the critical path then moves to the bridge work required at B01-1 with an estimated start of June 17, 2020 and running until the deck work is complete and traffic is switched on August 29, 2020. Once traffic is switched, work on the B01-2 bridge is completed and Open to

Traffic on October 11, 2020. However, the longest path continues 2 through the required 28-day cure and concrete surface coating work which is scheduled to be complete on October 20, 2020.

G. Delays

Field work is scheduled to start late due to delays in permitting issues, so we are getting a late start but still project to hit the Contractual Completion date of October 31, 2020. Additionally, no contingency has been added to this baseline schedule, as any inefficiencies between the work as planned and the work as performed can be mitigated through additional working hours or crews as needed.

H. Third Party Interfaces

Utility work is being coordinated with DTE, all dates in the schedule for utility work are currently tentative. DTE will send us their Coordination Plan with final dates by the end of April.

I. Lags

There are no lag relationships utilized in the Baseline Schedule.

J. Additional Information

The schedule assumes an average 48-hour work week, with Saturdays and Sundays (as needed) being used to make up the required number of adverse weather days. No contingency has been added to this baseline schedule as any inefficiencies between the work as planned and the work as performed can be mitigated through additional working hours or crews as needed. The production rates utilized will be provided if requested by the Engineer.